

PATENT ABSTRACTS OF JAPAN

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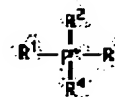
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(54) POLYESTER COMPOSITE MATERIAL

(57)Abstract:

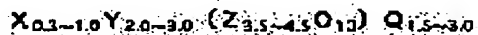
PROBLEM TO BE SOLVED: To obtain a composite material having sufficient mechanical properties and heat resistance and an excellent hue in improved productivity by incorporating a layered silicate containing ionically bonded organophosphonium ions among the layers and prepared by subjecting e.g. tetraethylphosphonium and a layered silicate such as montmorillonite to an ion exchange reaction in a thermoplastic polyester.

SOLUTION: The thermoplastic polyester may be a crystalline or amorphous one. In further detail, it is particularly desirably polyethylene phthalate. The layered silicate containing ionically bonded organophosphonium ions among the layers is one derived by replacing X of a layered silicate represented by formula II (wherein X is



I.

an interlayer alkali metal ion; Y is an octahedral configuration ion; Z is a tetrahedral configuration ion; and Q is OH- or F-) by an organic ion represented by formula I (wherein R1 to R4 are each a 1-20C alkyl, carboxyl, phenyl or the like) and is desirably used in such an amount that the inorganic matter content of the composite material is 1-5 wt.%.



II.

LEGAL STATUS

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